

The Globus Toolkit “Ecosystem”

More Useful Tools and Technologies for Grid Computing

These pages provide quick references to original source information for the tools and technologies mentioned in this tutorial. The items mentioned in each section are representative of their categories, but this inventory is far from comprehensive.

Most, but not all, of the items mentioned here are available under open source licenses.

Many of the tools listed in this reference sheet are also available as part of integrated distributions including NMI, VDT, NPACkage, and NPACI Rocks. See the “System Packaging/Distribution” section for links to these distributions.

Species: Security Tools

MyProxy

Web: <http://grid.ncsa.uiuc.edu/myproxy/>

KX.509/KCA

Web: http://www.citi.umich.edu/projects/kerb_pki/

PKINIT

Web: <http://meta.cesnet.cz/software/heimdal/pkinit.en.html>

Earth System Grid Registration Service

Example: <http://www.earthsystemgrid.org/>

VOMS

Web: <http://edg-wp2.web.cern.ch/edg-wp2/security/voms/voms.html>

VOMRS

Web: <http://computing.fnal.gov/docs/products/vomrs/>

Species: Monitoring/Discovery Tools

Ganglia

Web: <http://ganglia.sourceforge.net/>

TeraGrid’s Inca

Web: <http://tech.teragrid.org/inca/>

BigBrother

Web: <http://www.bb4.org/>

Professional: Quest Software, Inc. (<http://www.quest.com/>)

Earth System Grid Monitoring Services

Example: <http://snipurl.com/StatusPage> (will redirect)

R-GMA

Web: <http://www.r-gma.org/>

Species: Computing/Processing Tools

Condor, Condor-G, DAGman

Web: <http://www.cs.wisc.edu/condor/>

NetSolve/GridSolve

Web: <http://icl.cs.utk.edu/netsolve/>

GridAnt

Web: <http://www-unix.globus.org/cog/projects/gridant/>

Platform CSF

This technology is not yet released for open source use, but is expected to be included as a contributed element of the Globus Toolkit 4.0. Platform's marketing literature states that Platform LSF and Platform LSF Multicluster include CSF technology.

Presentation: http://www.globusworld.org/program/slides/8a_1.pdf

Chimera

Web: <http://www.griphyn.org/chimera/>

Pegasus

Web: <http://pegasus.isi.edu/>

Species: Data Tools

Note: Chimera and Pegasus (see above) blur the boundaries between computation and data tools and may also be considered "data tools."

GSI-SCP/SFTP

Web: <http://grid.ncsa.uiuc.edu/ssh/>

UberFTP

Web: <http://dims.ncsa.uiuc.edu/set/uberftp/>

NeST

Web: <http://www.cs.wisc.edu/condor/nest/>

Species: Collaboration tools

CHEF/Sakai

Web: <http://www.chefproject.org/>
<http://www.sakaiproject.org/>

OGCE

Web: <http://www.collab-ogce.org/nmi/index.jsp>

Access Grid

Web: <http://www.accessgrid.org/>

Species: System Packaging/Distribution

PACMAN

Web: <http://physics.bu.edu/~youssef/pacman/>

GPT

Web: <http://www.ncsa.uiuc.edu/Divisions/ACES/GPT/>

NMI

Web: <http://www.nsf-middleware.org/>

NPACkage

Web: <http://npackage.npaci.org/>

NPACI Rocks

Web: <http://www.rockclusters.org/>

VDT

Web: <http://www.cs.wisc.edu/vdt/>